WHAT IS CLAIMED IS:

1	 A method for providing telephone application services using a
2	managed VOIP network, where voice data transmitted over the network is codified in a
3	native VOIP format, said method comprising the acts of:
4	providing a plurality of channels for handling incoming
5	telephone calls and a shared memory, accessible to all channels, storing response voice data
6	in native VOIP format;
7	receiving a first incoming telephone call, including a first
8	plurality of received IP packets encapsulating voice data in native format, from a service
9	requestor over the managed VOIP network;
0	setting up a connection between the incoming telephone call
1	and a first one of said channels for handling the incoming telephone call;
2	identifying a requested service;
3	accessing response voice data, stored in the native VOIP forma
4	in said shared memory, responsive to the requested service;
5	encapsulating said response voice data in a second plurality of
6	response IP packets; and
7	sending said second plurality of response IP packets over said
8	managed VOIP network to the service requestor.
1	2. The method of claim 1 where said act of identifying a requested
2	service comprises the acts of:
3	processing voice data in native format, extracted from said
4	received IP packets, to identify a requested service;
5	extracting voice data from said received IP packets; and
6	performing speech analysis on extracted voice data to identify
7	the service requested.
1	3. The method of claim 1 where said act of identifying a requested
2	service comprises the acts of:
3	identifying a DTMF signal;

4	determining a requested service associated with an identified
5	DTMF signal;
1	4. The method of claim 1 where said act of accessing response voice data
2	further comprising the acts of:
3	determining whether said requested service requires text to
4	speech (TTS) conversion;
5	if so invoking a TTS module that converts text to non-native
6	voice data not in native VOIP format;
7	converting said non-native voice data to native VOIP format.
1	5. The method of claim 1 where said act of accessing response voice data
2	further comprising the acts of:
3	determining whether received voice data will be processed by
4	a speech recognition module;
5	if so, converting said native VOIP format voice data to non-
6	native format voice data prior to speech recognition.
1	6. The method of claim 1 further comprising the act of:
2	extracting calling ID line data from VOIP call signaling
3	protocol to obtain location information about the service requestor;
4	accessing customized voice data, in native VOIP format, from
5	said shared memory;
6	encapsulating said customized voice data in customized IP
7 .	packets; and
8	sending said customized IP packets to the service requestor
9	over the managed VoIP network.
,	7. The method of claim 1 further comprising the act of:
l 2	7. The method of claim 1 further comprising the act of: providing an I/O thread for each channel for managing all I/O, with I/O thread
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3	performing the following acts:

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4	while playing a message, giving higher priority
5	to data transmission than to data reception; and
5	while recording a message, giving higher
7	priority to data reception than to data transmission.
1	8. The method of claim 1 further comprising the acts of:
2	providing a plurality of message access servers for controlling
3	access to shared memory; and
4	utilizing a service requestor ID to access a user database
5	holding an association between the ID and a home MAS for accessing response data for the
6	service requestor.
1	9. In integrated VOIP network comprising:
2	a plurality of voice processing modules for processing requests without
3	forwarding voice data to an end destination.